

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start		Rating **	A	Issue No.	10
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_RD2075_01_f_2014_10				
Comment Code					
Inspector Comment					
RD 2075 has emergency supplies stored in their building.					

No Photos

LM Start		Rating **	A	Issue No.	11
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_RD2075_01_f_2014_11				
Comment Code					
Inspector Comment					
RD 2075 has regular training for their work crews, they don't have district crew only trustees, landowners and farmers.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start		Rating **	A	Issue No.	9	
LM End	0.35	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Operations & Maintenance Manuals				°	37.744860 °
					°	-121.289828 °
DWR ID	DWR_RD2075_01_f_2014_9					
Comment Code						
Inspector Comment						
RD 2075 has the O&M Manual on file.						

No Photos

LM Start	0.10	Rating **	U	Issue No.	12
LM End	1.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.748393 °	37.739322 °
				-121.289778 °	-121.281450 °
DWR ID	DWR_RD2075_01_f_2016_12				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Weeds taller than 3.0 feet on the landside slope and shoulder need to be removed.					

Photo 1 of 1 : SP_2017_RD2075_315_12_20170510_00029.jpg



Looking upstream from levee mile 0.10 landside slope unwanted tall weeds present on the levee slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	0.10	Rating **	M	Issue No.	23
LM End	0.48	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.748393 °	37.743153 °
				-121.289762 °	-121.289140 °
DWR ID	DWR_RD2075_01_s_2017_23				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Spray and mow the weeds on the waterside slope.					

Photo 1 of 1 : SP_2017_RD2075_315_23_20170518_00030.jpg



RD 2075 Waterside slope looking upstream from levee mile 0.10.

LM Start	0.12	Rating **	M	Issue No.	24
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.748200 °	37.748200 °
				-121.289717 °	-121.289717 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24663 DS_ID:24735 EP_NO: 4736 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe not visible on waterside.- no access to concrete riser on waterside.- blocked siphon breaker. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 4.0 feet below the crown. Pump mounted on pile structure in drainage ditch on the landside. Siphon breaker in concrete riser unit on the waterward slope. Concrete distribution box at the toe of waterward slope. (App. No. 4736 - E. E. Brown). O&M Manual SJR 003, Dec. 1968. FS Date: 11/13/2013					

Photo 1 of 3 : UCIP_SP_2017_24663_44022.jpg



WS view: concrete standpipe (top) and concrete pipe riser (bottom) on levee slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	0.12	Rating **	M	Issue No.	24 (cont)
LM End	0.12	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.748200 °	37.748200 °
				-121.289717 °	-121.289717 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24663 DS_ID:24735 EP_NO: 4736 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe not visible on waterside.- no access to concrete riser on waterside.- blocked siphon breaker. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 4.0 feet below the crown. Pump mounted on pile structure in drainage ditch on the landside. Siphon breaker in concrete riser unit on the waterward slope. Concrete distribution box at the toe of waterward slope. (App. No. 4736 - E. E. Brown). O&M Manual SJR 003, Dec. 1968. FS Date: 11/13/2013					

Photo 2 of 3 : UCIP_SP_2017_24663_44021.jpg



WS view: concrete pipe riser with siphon breaker on levee slope.

LM Start	0.12	Rating **	M	Issue No.	24 (cont)
LM End	0.12	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : UCIP_SP_2017_24663_44020.jpg



LS view: walkway, pump, service pole, and intake structure.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	0.99	Rating **	M	Issue No.	13
LM End	1.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.740015 °	37.739830 °
				-121.281243 °	-121.281217 °
DWR ID	DWR_RD2075_01_f_2016_13				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					

No Photos

LM Start	1.01	Rating **	C	Issue No.	16
LM End	1.36	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.739762 °	37.735405 °
				-121.281227 °	-121.283015 °
DWR ID	DWR_RD2075_01_f_2016_16				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Weeds taller than 5-foot on the slope and shoulder. Remove the vegetation from the levee section.					

No Photos

LM Start	1.06	Rating **	M	Issue No.	17
LM End	1.06	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.739073 °	37.739073 °
				-121.281620 °	-121.281620 °
DWR ID	DWR_RD2075_01_f_2016_17				
Comment Code					
T4 : Trim trees over roadway to at least 12 feet above ground level.					
Inspector Comment					
The tree limbs should not be able to touch top of vehicle as it passes under.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	1.13	Rating **	C	Issue No.	18
LM End	1.36	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.738038 °	37.735405 °
				-121.281702 °	-121.283015 °
DWR ID	DWR_RD2075_01_f_2016_18				
Comment Code					
V9 : Keep the crown roadway free of vegetation.					
Inspector Comment					
Remove the unwanted weeds from the crown. The roadway should be free of vegetation.					

No Photos

LM Start	1.94	Rating **	C	Issue No.	19
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.735792 °	37.731365 °
				-121.291987 °	-121.293700 °
DWR ID	DWR_RD2075_01_f_2016_19				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the sprayed wild growth of tumbleweeds and Johnson grass from the waterside slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	1.94	Rating **	C	Issue No.	20
LM End	2.11	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.735768 °	37.734342 °
				-121.292032 °	-121.294205 °
DWR ID	DWR_RD2075_01_f_2016_20				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Remove the sprayed weeds from the land side slope.					

No Photos

LM Start	2.32	Rating **	M	Issue No.	25
LM End	2.32	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.731314 °	37.731314 °
				-121.293713 °	-121.293713 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24666					
DS_ID:24737					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - service pole on landside.- looks abandoned.					
Walkway in dilapidated condition.					
FIELD_STRUCT_DESC: 16-inch pipe through the levee, 4.5 feet below the crown. Pump mounted on pile structure in drain ditch on the landward side. Siphon breaker in CM riser unit on the waterward slope.					
O&M Manual SJR 003, Dec. 1968.					
FS Date: 11/13/2013					

Photo 1 of 3 : UCIP_SP_2017_24666_45600.jpg



WS view: concrete standpipe (top) and steel pipe riser (bottom marked) on levee slope.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	2.32	Rating **	M	Issue No.	25 (cont)
LM End	2.32	Issue Type +	Ma	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.731314 °	37.731314 °
				-121.293713 °	-121.293713 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:24666					
DS_ID:24737					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - service pole on landside.- looks abandoned.					
Walkway in dilapidated condition.					
FIELD_STRUCT_DESC: 16-inch pipe through the levee, 4.5 feet below					
the crown. Pump mounted on pile structure in drain ditch on the					
landward side. Siphon breaker in CM riser unit on the waterward slope.					
O&M Manual SJR 003, Dec. 1968.					
FS Date: 11/13/2013					

Photo 2 of 3 : UCIP_SP_2017_24666_44030.jpg



WS view: blocked siphon breaker in steel pipe riser on levee slope.

LM Start	2.32	Rating **	M	Issue No.	25 (cont)
LM End	2.32	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : UCIP_SP_2017_24666_44029.jpg



WS view: concrete standpipe on levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	5.20	Rating **	M	Issue No.	22
LM End	5.57	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.728863 °	37.724760 °
				-121.275175 °	-121.270945 °
DWR ID	DWR_RD2075_01_f_2016_22				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					
Spray and mow the weeds on the waterside along the paved roadway.					

No Photos

LM Start	5.20	Rating **	M	Issue No.	21
LM End	5.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.728863 °	37.722035 °
				-121.275175 °	-121.268760 °
DWR ID	DWR_RD2075_01_f_2016_21				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Spray and mow the weeds on the landside along the County paved roadway.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	5.28	Rating **	M	Issue No.	1
LM End	5.29	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.727933 °	37.727933 °
				-121.274491 °	-121.274491 °
DWR ID	DWR RD2075 01 s 2017 1				

Comment Code

Inspector Comment

07/12/2016: No significant change observed.
 08/28/2015: No significant change observed. Loose material is visible at the upper levee slope. The loose soil may have been caused by runoff.
 08/18/2014: No significant change observed.
 09/10/2013: No significant change observed.
 09/13/2012: No significant change observed.
 08/18/2011: No significant change observed. Some new material added to the water side levee slope, but the added material is loose and seems not helping the levee protection.
 10/05/2010: No significant change observed. Levee slope has minimal vegetation and lacks rip rap protection. Sandy material found on the lower and middle slope is an undesirable material to have on a levee.
 08/05/2010: Recommended for annual assessment and monitoring during flood events, per CLRO.
 08/20/2009: No major change since last visit; site is located in an oxbow; slope surface consists of very sandy material; there is a tree on site leaning and with exposed tree roots; site is recommended as a local maintenance issue, per CLRO CES Evaluation 2008 Report; Eddy Cordoza from the district is aware of the site and is looking for recommendation; site is previously rated "U".
 08/17/2007: Site is close to an irrigation pump inlet. [2016 Site ID:RD2075U01RM64.34]

LM Start	5.28	Rating **	M	Issue No.	1 (cont)
LM End	5.29	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : SP_2017_RD2075_315_1_20170404_00001.jpg



Upstream view of the erosion site.

Photo 2 of 3 : SP_2017_RD2075_315_1_20170404_00002.jpg



Looking upstream at the site.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	5.56	Rating **	M	Issue No.	29
LM End	5.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.724877 °	37.724877 °
				-121.271025 °	-121.271025 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50191
DS_ID:24740
EP_NO: 3492
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 06/21/2016 Rock revetment placed along WS slope beneath and around pipe; this corrected the levee erosion but still unclear whether the cause of the erosion was addressed. I found no evidence of siphon breaker leakage cited previously. Eddy Cardoza of RD2075 mentioned he saw no leak in and around pipe when the levee slope was repaired. Crossing was been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)11/13/2013 Huge erosion on waterside levee slope due to siphon breaker leakage. It is not 16-inch but 12-inch steel pipe. Pump not mounted on pile structure but mounted on concrete sump. Siphon breaker not in concrete riser but on steel pipe. Pipe is not 8 ft. below the crown but 4 ft below the crown. Looks original pipe was replaced with new crossing. Needs more information from LMA or DWR Inspector. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 12-inch (not 14-inch as referenced in Permit No. 3492-A) asphalt coated steel pipe through the levee, 4 feet below the crown. Pump mounted on a concrete sump in a drain ditch approximately 200 feet off the landside (LS) toe. Siphon breaker on the apex of the pipe through the waterside (WS) slope. (Permit No. 3492, 1962 - RD2075) (Additional Related Permit(s): 3492-A, 1969 - RD2075). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 003, Dec 1968 (HLM 5.52)]. Note O&M Manual references a 16-inch pipe with a depth of 8 feet at this location, which was replaced under Permit No. 3492 with a 6-inch pipe, which was replaced with a 14-inch pipe under Permit No. 3492-A.
FS Date: 6/21/2016

Photo 1 of 3 : UCIP_SP_2017_50191_44262.jpg



WS view: siphon breaker on steel pipe on levee slope. Huge soil erosion due to siphon breaker leakage.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	5.56	Rating **	M	Issue No.	29 (cont)
LM End	5.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.724877 °	37.724877 °
				-121.271025 °	-121.271025 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50191

DS_ID:24740

EP_NO: 3492

Repair Type: Non-Urgent

Crossing Status: Found

UCIP Comments: 06/21/2016 Rock revetment placed along WS slope beneath and around pipe; this corrected the levee erosion but still unclear whether the cause of the erosion was addressed. I found no evidence of siphon breaker leakage cited previously. Eddy Cardoza of RD2075 mentioned he saw no leak in and around pipe when the levee slope was repaired. Crossing was been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)11/13/2013 Huge erosion on waterside levee slope due to siphon breaker leakage. It is not 16-inch but 12-inch steel pipe. Pump not mounted on pile structure but mounted on concrete sump. Siphon breaker not in concrete riser but on steel pipe. Pipe is not 8 ft. below the crown but 4 ft below the crown. Looks original pipe was replaced with new crossing. Needs more information from LMA or DWR Inspector. (P. Amaty - DWR)

FIELD_STRUCT_DESC: 12-inch (not 14-inch as referenced in Permit No. 3492-A) asphalt coated steel pipe through the levee, 4 feet below the crown. Pump mounted on a concrete sump in a drain ditch approximately 200 feet off the landside (LS) toe. Siphon breaker on the apex of the pipe through the waterside (WS) slope. (Permit No. 3492, 1962 - RD2075) (Additional Related Permit(s): 3492-A, 1969 - RD2075). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 003, Dec 1968 (HLM 5.52)]. Note O&M Manual references a 16-inch pipe with a depth of 8 feet at this location, which was replaced under Permit No. 3492 with a 6-inch pipe, which was replaced with a 14-inch pipe under Permit No. 3492-A.

FS Date: 6/21/2016

Photo 2 of 3 : UCIP_SP_2017_50191_44261.jpg



LS view: pipe, pump and concrete sump in the drain ditch.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	5.56	Rating **	M	Issue No.	29 (cont)
LM End	5.56	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.724877 °	37.724877 °
				-121.271025 °	-121.271025 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50191
DS_ID:24740
EP_NO: 3492
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 06/21/2016 Rock revetment placed along WS slope beneath and around pipe; this corrected the levee erosion but still unclear whether the cause of the erosion was addressed. I found no evidence of siphon breaker leakage cited previously. Eddy Cardoza of RD2075 mentioned he saw no leak in and around pipe when the levee slope was repaired. Crossing was been downgraded from Urgent to Non-Urgent. (K. Fazel - UCIP)11/13/2013 Huge erosion on waterside levee slope due to siphon breaker leakage.It is not 16-inch but 12-inch steel pipe.Pump not mounted on pile structure but mounted on concrete sump.Siphon breaker not in concrete riser but on steel pipe.Pipe is not 8 ft. below the crown but 4 ft below the crown.Looks original pipe was replaced with new crossing. Needs more information from LMA or DWR Inspector. (P. Amatya - DWR)
FIELD_STRUCT_DESC: 12-inch (not 14-inch as referenced in Permit No. 3492-A) asphalt coated steel pipe through the levee, 4 feet below the crown. Pump mounted on a concrete sump in a drain ditch approximately 200 feet off the landside (LS) toe. Siphon breaker on the apex of the pipe through the waterside (WS) slope. (Permit No. 3492, 1962 - RD2075) (Additional Related Permit(s): 3492-A, 1969 - RD2075). [Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin O&M Manual 003, Dec 1968 (HLM 5.52)]. Note O&M Manual references a 16-inch pipe with a depth of 8 feet at this location, which was replaced under Permit No. 3492 with a 6-inch pipe, which was replaced with a 14-inch pipe under Permit No. 3492-A.
FS Date: 6/21/2016

Photo 3 of 3 : UCIP_SP_2017_50191_44260.jpg



LS view: closer view of pipe, pump and concrete sump in the drain ditch.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	6.84	Rating **	M	Issue No.	30
LM End	6.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714162 °	37.714162 °
				-121.259227 °	-121.259227 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50213
DS_ID:24742
EP_NO: 4051
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 06/21/2016: Erosion repaired with rock revetment and crown regraded. Pipe is crushed and deformed on LS. PVC pipe has been removed. Crossing has been downgraded from Urgent to Non-Urgent. 11/13/2013:- exposed deformed pipe on landside slope. Soil erosion also occurred around the deformed pipe. Walkway at pump on LS toe in poor structural condition.- a temporary 12-inch PVC pipe also found on both sides of the levee.
FIELD_STRUCT_DESC: 12-inch drainage pipe through the levee, 5.5 feet below the crown. Pump mounted over concrete sump at the landside (LS) toe. Siphon breaker in corrugated metal riser unit on the waterside (WS) shoulder. 12-inch polyvinyl chloride (PVC) pipe 1 foot below the crown, installed through the levee for emergency use during 1986 floods (not found in 2016). (Permit No. 4051, 1962 - RD2075).
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin River O&M Manual 003, December 1968 (HLM 6.79)].
FS Date: 6/21/2016

LM Start	6.84	Rating **	M	Issue No.	30 (cont)
LM End	6.84	Issue Type +	Ma	Location *	WS

Photo 1 of 3 : UCIP_SP_2017_50213_45613.jpg



WS view: CMP riser (bottom) on levee shoulder. Steel pipe (top) and temporary pvc pipe on levee slope.

Photo 2 of 3 : UCIP_SP_2017_50213_45612.jpg



WS view: siphon breaker in CMP riser on levee shoulder.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2075 McMullin

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Right	7.45	04/20/2017 04/20/2017	Herman Phillips

LM Start	6.84	Rating **	M	Issue No.	30 (cont)
LM End	6.84	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.714162 °	37.714162 °
				-121.259227 °	-121.259227 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:50213
DS_ID:24742
EP_NO: 4051
Repair Type: Non-Urgent
Crossing Status: Found
UCIP Comments: 06/21/2016: Erosion repaired with rock revetment and crown regraded. Pipe is crushed and deformed on LS. PVC pipe has been removed. Crossing has been downgraded from Urgent to Non-Urgent. 11/13/2013:- exposed deformed pipe on landside slope. Soil erosion also occurred around the deformed pipe. Walkway at pump on LS toe in poor structural condition.- a temporary 12-inch PVC pipe also found on both sides of the levee.
FIELD_STRUCT_DESC: 12-inch drainage pipe through the levee, 5.5 feet below the crown. Pump mounted over concrete sump at the landside (LS) toe. Siphon breaker in corrugated metal riser unit on the waterside (WS) shoulder. 12-inch polyvinyl chloride (PVC) pipe 1 foot below the crown, installed through the levee for emergency use during 1986 floods (not found in 2016). (Permit No. 4051, 1962 - RD2075).
[Additional Reference(s): DWR Levee Log, 2005. USACE San Joaquin River O&M Manual 003, December 1968 (HLM 6.79)].
FS Date: 6/21/2016

Photo 3 of 3 : UCIP_SP_2017_50213_45614.jpg



LS view: deformed pipe and soil erosion around it (marked bottom). Pipe and pump on pile structure in drain ditch.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	